

Notice of Allowability

Application No.

10/606,744

Examiner

Mariceli Santiago

Applicant(s)

HASHIMOTO ET AL.

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Response filed March 16, 2005.
2. ☒ The allowed claim(s) is/are 1-7 and 11-13.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 5/9/2005.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Response to Amendment

The Amendment, filed on March 16, 2005, has been entered and acknowledged by the Examiner.

Cancellation of claims 8-10 and 14 has been entered.

Claims 1-7 and 11-13 are pending in the instant application.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Henry J. Staas on May 9, 2005.

The application has been amended as follows:

In the title, pursuant to MPEP 606.01, the title has been changed as follows,

--LIGHT-EMITTING DISPLAY DEVICE WITH SUBSTRATE HAVING SURFACE
IRREGULARITIES--.

In the drawings,

The following changes to the drawings have been approved by the examiner and agreed upon by applicant:

Insert in each of Figures 1, 2, 3A-3D, 4 and 5, the label --PRIOR ART--.

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Election/Restrictions

Applicant's election without traverse of Group I, claims 1-7 and 11-13, in the reply filed on March 16, 2005 is acknowledged.

Allowable Subject Matter

Claims 1-7 and 11-13 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 1, and specifically comprising the limitation of wherein, on the surface of the substrate, at least part of a region that corresponds to each pixel has irregularities for light scattering, the difference between the maximum height and the minimum height of the irregularities being at least 0.4 mm, and the barriers and the irregularities are formed directly in the substrate material.

Regarding claims 4-7, claims 4-7 are allowable for the reasons given in claim 1 because of their dependency status from claim 1.

Regarding claim 2, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 2, and specifically comprising the limitation of barriers delimiting at least one side of each pixel respectively, wherein, the switching elements are placed on the tops of the barriers on the surface of the substrate, and at least part of a region that corresponds to each pixel has irregularities for light scattering, the difference between the maximum height and the minimum height of the irregularities being at least 0.4 mm.

Regarding claims 3 and 11-13, claims 3 and 11-13 are allowable for the reasons given in claim 2 because of their dependency status from claim 2.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Other Prior Art Cited

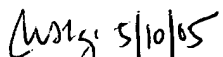
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariceli Santiago whose telephone number is (571) 272-2464. The examiner can normally be reached on Monday-Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Mariceli Santiago
Primary Examiner
Art Unit 2879

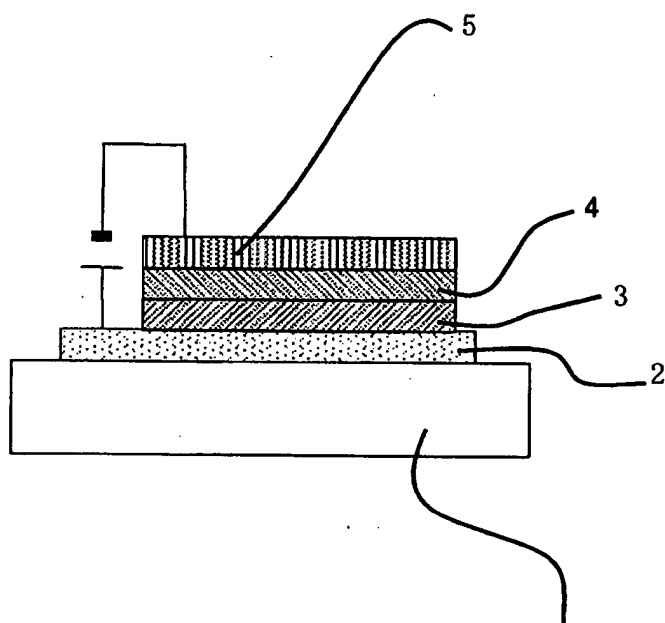


Fig. 1 PRIOR ART

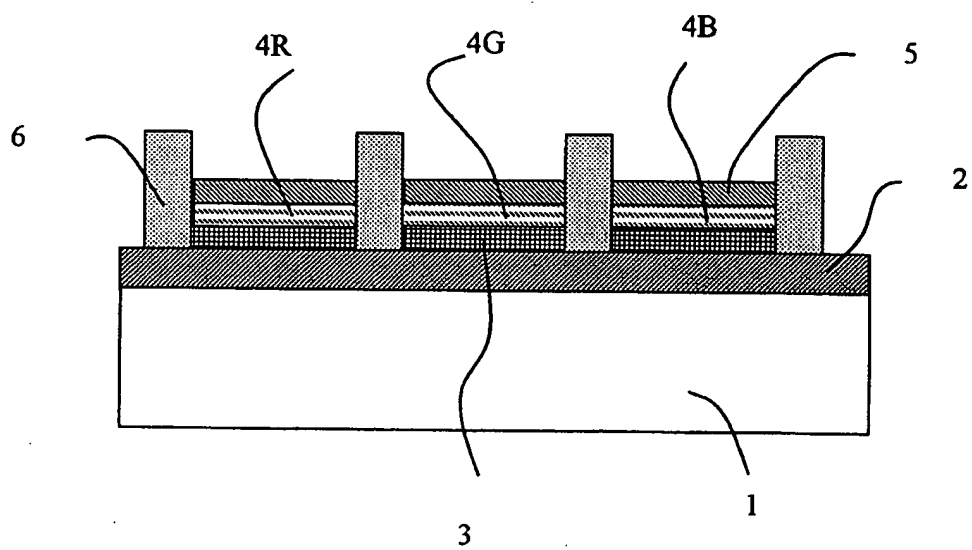


Fig. 2 PRIOR ART

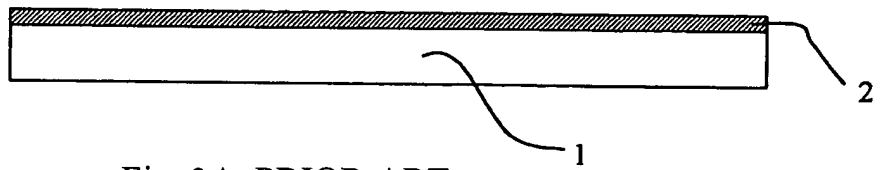


Fig. 3A PRIOR ART

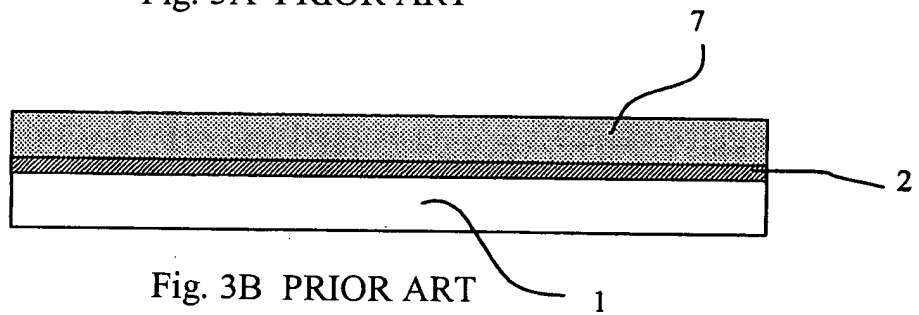


Fig. 3B PRIOR ART

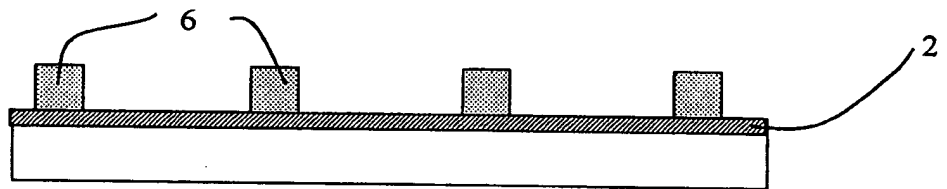


Fig. 3C PRIOR ART

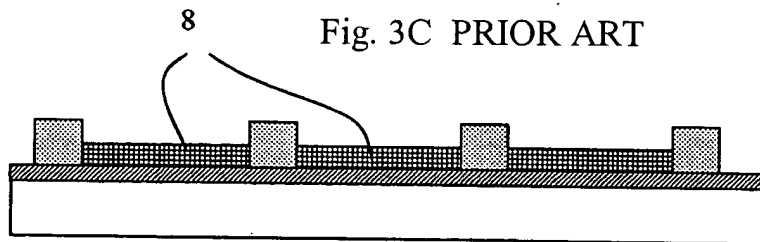


Fig. 3D PRIOR ART

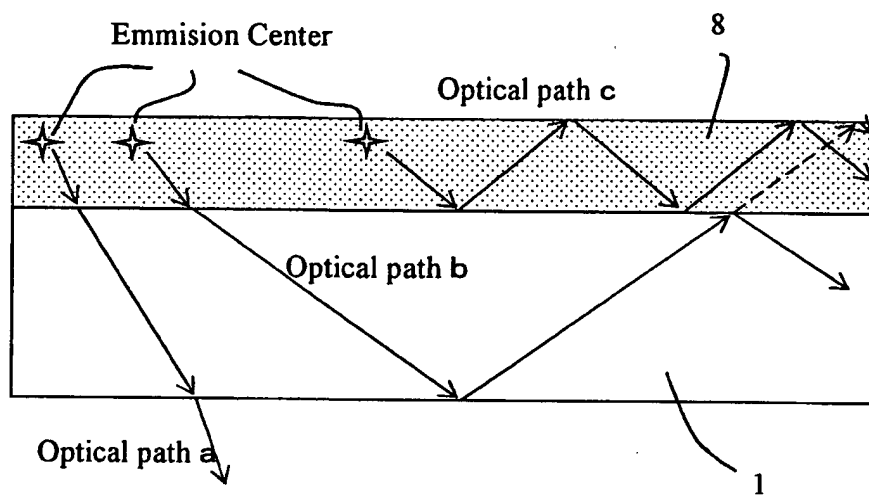


Fig. 4 PRIOR ART

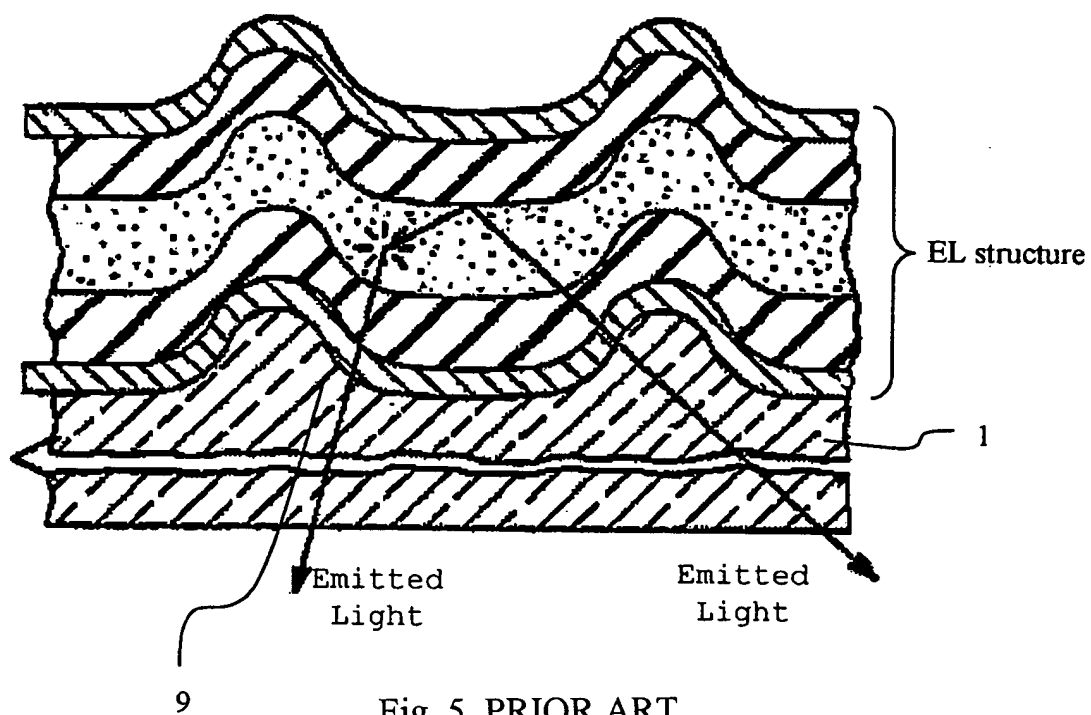


Fig. 5 PRIOR ART